### State of California AIR RESOURCES BOARD

# EXECUTIVE ORDER A-2-57 Relating to Certification of New Motor Vehicles

#### FUJI HEAVY INDUSTRIES LTD.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1989 model-year Fuji Heavy Industries Ltd. exhaust emission control systems are certified as described below for gasoline-powered passenger cars:

Engine Family	•	clacement (Cubic inches)	Exhaust Emission Control Systems (Special Features)
KFJ1.8V5HCJ1	1.8	(109)	Oxygen Sensor Three-Way Catalyst
			Oxidation Catalyst (Electronic Port Fuel Injection)
. 김보통 (10년) 최고교인(20년 원교학 (2014년) 최고교인(20년	- 112 km² Pala buay		(On-Board Diagnostics)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)		
0.41	7.0	0.7		

The following are the certification emission values for this engine family:

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides		
(Grams per Mile)	(Grams per Mile)	(Grams per Mile)		
0 19	3.0	0.3		

BE IT FURTHER RESOLVED: That the listed models are certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying to the optional NOx standard by providing evidence that there are sufficient projected sales of vehicles certifying to the primary NOx emission standard, or is allowed a delay in implementation under small volume manufacturer provisions, or is allowed a delay in implementation under the "in lieu" standards, or is certifying passenger cars weighing more than 5250 lbs. loaded vehicle weight.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed also comply with the "Maifunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 27 day of May, 1988.

K. D. Drachand, Chief Mobile Source Division

# 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

Page 1

Manufactu	rer Fuji He	eavy Indus	tries Ltd.	Engine Family	, KFJ	71.8V5HCJ1	
			Engine Type		· · · · · · · · · · · · · · · · · · ·	-	
				Liters (CID)	1.8	3 Liters (109)	
ABBREVIAT	IONS						
Ignition :	System		Exhaust Emis	ssions Control	System	Special Features	
ECU-Electric EI-Electric ESAC-Electric Control VA-Vacuum VR-Vacuum VR-Vacuum VR-Vacuum CFI, EPFI DID, DIP, nV-nVentum	Advance Retard  em , MPFI, SFI,	Unit Advance	AIV-Air Inje EGR-Exhaust EIC-Electron (Diesel EM-Engine Mc SPL-Smoke Pu Throttle I TOC-Trap Oxi TOP-Trap Oxi DBC-Dual Bec OC-Oxidation TWC-Three-Wa WUOC-Warm-Un WUTWC-Warm-U	off Limiter or Delay Idizer, Continu Idizer, Periodi I Catalyst I Catalyst I Catalyst O Oxidation Cat Up Three-Way Ca	cal	CFI-Central Fuel Injection or Throttle Body Injection EPFI-Electronic Port Fuel Injection MPFI-Mechanical Port Fuel Injection SFI-Sequential Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber TC-Turbocharger SC-Supercharger IC-Intercooler or Aftercooler CCV-Combustion Chamber Valve OBD-On-Board Diagnostics	
VEHICLE M	ODELS:						
AX4; XT AX7; XT 4	WD			u.			
⊰ngine:	Front x	Mid.	Re	ear			
Drive:	FWD x	RWD	47	VD Full Time		4WD Part Timex	

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## 1989 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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senger C	ars <u>x</u> Light	-Duty Ti	rucks	Medium-Duty	y Vehicles	Gas x	_ Diesel
Manufacture	r <u>Fuji Heavy</u>	Industr	ies Ltd.	Engine Fa	amily KFJ	L.8V5HCJ1	
Liter (CID)	1.8 Liters	(109)		Eng.	Type H04		
Emission Co	ntrol Sys. (Spe	cial Fea	atures) <sub>-</sub>	OS, OC(1),	TWC (1), (EPF)	(, OBD)	
Engine Code	Vehicle Models (If Coded see attachment) (Dyno Hp)	Trans. Type	Equiv. Test Weight	Ign. System (ECU) EI, ESAC Part No.	Fuel System EPFI, OS Part No.	EGR Valve	Catalyst Part No.
K1.8V5CJMM	AX4 (DL) (6.2/6.8)	M5	2750 (2625) #	Distributor: Hitachi D4P86-03	Injector: JECS 0448	None	Fuji's Part No. Front:
	AX4 (GL) (6.2/6.8)		2750	Fuji's Part	Fuji's Part No. 16600AA010		20805AA071 Rear: 20805AA150
	AX7 (7.4/8.1)		3000 (2875) #	22100AA440			20003.2.230
8V5CJMMA	AX4 (DL) (6.2/6.8)		2750	Control Unit: Fuji's Part No.	21 <u>2 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 </u>	-	·
	AX4 (GL) (6.2/6.8)		2875 (2750) #	22611AA520			,
	AX7 (7.4/8.1)		3000				
Kl.8V5CJMA Kl.8V5CJMAA	AX4 (6.2/6.8)	A4	2875				
					·		

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

#The model is tested at higher ETW in accordance with 40 CFR 86.084-26(a)(2).

Date	of	Issue	April	29,	1988	Revisions: